

IN THE CLAIMS:

Please amend claims 1 and 4 as shown below, in which deleted terms are shown with strikethrough and added terms are shown with underscoring.

1. (Currently amended) A side airbag system comprising:

    a side airbag unit, which deploys an airbag ~~to the~~ in a sideward direction with respect to an occupant sitting on a vehicle seat;  
    a posture detector, which determines a posture of said occupant;  
    a weight detector, which measures a weight of said occupant; and  
    a deployment controller, which controls the deployment of said airbag based on said posture and weight of said occupant.

2. (Original) A side airbag system according to claim 1, wherein

    said deployment controller allows the deployment of said airbag irrespective of the posture of said occupant, when said weight measured by said weight detector exceeds a threshold value.

3. (Original) A side airbag system according to claim 1, wherein

    said side airbag unit is provided on one side of a seat back of said vehicle seat, and  
    said posture detector includes:  
        a plurality of first sensors, which are placed on said seat back and are lined up at regular interval along the up-and-down direction with respect to said seat back, and  
        a second sensor, which is placed on the one side of said seat back.

4. (Currently amended) A side airbag system according to claim 3, wherein

    said posture detector categorizes said posture of said occupant into one of multiple posture categories based on the detection result of said first sensors and second sensor, and said posture detector outputs a posture information, which indicates said posture category, to said deployment controller,

    said weight detector categorizes said weight of said occupant into one of multiple weight

categories, and said weight detector outputs a weight information, which indicates said weight category, to said deployment controller, and

    said deployment controller controls the deployment of said airbag based on said posture information and said weight information.

5. (Original) A side airbag system according to claim 3, wherein

    said posture detector categorizes said posture of said occupant into one of three types of posture categories of "VACANT", "LEANING", and "NORMAL", and said posture detector outputs a posture information, which indicates said posture category, to said deployment controller,

    said weight detector categorizes said weight of said occupant into one of four types of weight categories of "EMPTY", "LOW", "HIGH", and "FAULT", and said weight detector outputs a weight information, which indicates said weight category, to said deployment controller, and

    said deployment controller controls the deployment of said airbag based on said posture information and said weight information.

6. (Original) A side airbag system according to claim 5, wherein

    said deployment controller forbids the deployment of said airbag if said weight category is "EMPTY" and said posture category is "VACANT".

7. (Original) A side airbag system according to claim 5, wherein

    said deployment controller determines whether or not to allow the deployment of said airbag based on said posture information when said weight category is "FAULT".